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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,021	03/19/2002	Tadashi Ishibashi	9793822-0158	6238
7590 11/23/2005		EXAMINER		
David R Metzger		THOMPSON, CAMIE S		
Sonnenschein Nath & Rosenthal		ART UNIT	PAPER NUMBER	
Wacker Drive S			ARTONI	TATER NOMBER
PO Box 061080	•		1774	
Chicago, IL 60606-1080			DATE MAILED: 11/23/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/009,021	ISHIBASHI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Camie S. Thompson	1774			
The MAILING DATE of this communicate Period for Reply	ation appears on the cover sheet with	h the correspondence address			
 A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAI Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun If NO period for reply is specified above, the maximum statut Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b). 	ILING DATE OF THIS COMMUNICA 37 CFR 1.136(a). In no event, however, may a rep ication. tory period will apply and will expire SIX (6) MONTH I, by statute, cause the application to become ABA	ATION. bly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed	on AfterFinal Amendment filed 11/9)/2005.			
) This action is non-final.	·			
3) Since this application is in condition for	r allowance except for formal matter	rs, prosecution as to the merits is			
closed in accordance with the practice	under Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
· _	is/are pending in the application				
 4) Claim(s) <u>29-35,37,38,49-53 and 56-61</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 					
5) Claim(s) is/are allowed.		•			
6)⊠ Claim(s) <u>29-35,37,38,49-53 and 56-61</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	on and/or election requirement.				
Application Papers					
9) The specification is objected to by the I	Examiner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection					
Replacement drawing sheet(s) including th		• •			
11) The oath or declaration is objected to b	by the Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for a) All b) Some * c) None of:	r foreign priority under 35 U.S.C. § 1	119(a)-(d) or (f).			
1. Certified copies of the priority do	ocuments have been received.				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of	the priority documents have been re	eceived in this National Stage			
application from the Internationa	al Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action t	for a list of the certified copies not re	eceived.			
Attachment(s)					
1) X Notice of References Cited (PTO-892)	4) 🗌 Interview Su	mmary (PTO-413)			
2) D Notice of Draftsperson's Patent Drawing Review (PTC	D-948) Paper No(s)/	Mail Date			
 Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 	O/SB/08) 5) Difference of Info 6) Other:	ormal Patent Application (PTO-152)			
S. Patent and Trademark Office	-,	-			

DETAILED ACTION

1. Examiner regrets the untimely reopening of prosecution.

2. Applicant's amendment and accompanying remarks filed November 9, 2005 have been acknowledged.

3. Examiner acknowledges cancelled claims 1-28, 36, 39-48 and 54-55.

4. The rejection of claims 9-15 and 17-18 under 35 U.S.C. 112, second paragraph is withdrawn due to applicant's cancellation of claims 1-28.

5. The rejection of claims 9-13 and 15 under 35 U.S.C. 102(e) as being anticipated by

Ichimura et al., U.S. Patent Number 6,525,212 is withdrawn due to applicant's cancellation of claims 1-28.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

7. Claims 56-58 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 56-58 are rendered indefinite because the are dependent from claim 9 which has been cancelled.

Application/Control Number: 10/009,021 Art Unit: 1774

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

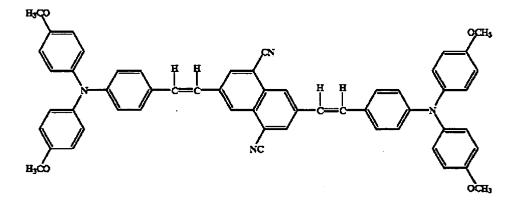
(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

9. Claims 29-35, 37-38, 49-53 and 59-61 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Tadashi et al., U.S. Patent Number 6,265,088 in view of Sato et al., U.S.

Patent Number 6,660,411.

The Tadashi reference discloses an organic electroluminescence device that comprises an organic layer having a luminescent region and is provided between an anode and a cathode. The organic layer comprises at least one distyryl compound such as



as per the instant claims (see column 2, line 64-column 3, line 5 and Formula (4)-3). Additionally, the reference discloses that the luminescent layer may comprise a combination of distyryl compounds as per the instant claims (see column 4, lines 10-16). Also, in column 4, lines 10-16 of the reference it is discloses that the device is able to obtain stable red luminescence with the distyryl compounds. The distyryl compounds contained in the reference have both electron transportability and hole transportability and can be used as the luminescent layer serving also as an electron transport layer or as a luminescent layer serving as a hole transport layer as per the instant claims. Figures 1-4 of the reference disclose that the device is a multilayer structure. Column 12, lines 5-23 of the Tadashi reference discloses that a fluorescent material is incorporated into the luminescent layer to obtain red luminescence. Tadashi also discloses that a hole blocking layer or an exciton-generating layer is incorporated into the luminescent region for controlling the transport of holes or electrons as per the instant claims. Column 11, lines 58-68 of the Tadashi reference discloses that the hole transport layer can comprise an aromatic amine and the electron transport material can comprise an pyrazoline as per instant claims 59-60. The Tadashi reference does not specifically disclose a phenantrholine structure as the hole blocking material. Sato teaches an electroluminescent device comprising an anode; a hole transport layer; an organic luminescent layer; a hole blocking layer; an electron transport layer and a cathode (see Figure 2). Additionally, Sato teaches that the luminescent layer can comprise a distyryl compound (see column 6, lines 49-column 7, line 10). Column 7, lines 19-45 of the Sato reference disclose that perylene can be used as the doping material. The Sato reference also teaches that the hole-blocking layer comprises a phenanthroline derivative (see column 3, lines 64-68). A hole blocking layer comprising phenanthroline has a

Application/Control Number: 10/009,021 Art Unit: 1774

higher ionization potential than the luminescent layer comprising a distyryl compound. Therefore, it would have been obvious to one of ordinary skill in the art to use a phenanthroline derivative in the hole blocking layer in order to further enhance the luminescent efficiency of the device (see Sato: column 3, lines 58-63).

Response to Arguments

10. Applicant's arguments with respect to claims 29-35, 37-38 and 49-61 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena L Dye, can be reached at (571) 272-3186. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RENA DYE SUPERVISORY PATENT EXAMINER A.U.1774 .../18/05